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Attorney's Docket No. 000475-205

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Daniel Jed Harrison, et al.) Group Art Unit: 1641
Application No.: 08/858,087) Examiner: C. Chin
Filed: May 16, 1997) Confirmation No.: 4960
For: MICROFLUIDIC SYSTEM AND)
METHODS OF USE)

**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

U.S. Patents

1.	5,585,103	Raychaudhuri et al.	12/17/1996
2.	5,750,015	Soane et al.	05/12/1998
3.	5,773,298	Lynggaard et al.	06/30/1998
4.	5,810,985	Bao et al.	09/22/1998
5.	5,858,195	Ramsey	01/12/1999
6.	5,919,646	Okun et al.	07/06/1999
7.	5,942,443	Parce et al.	08/24/1999
8.	6,007,690	Nelson et al.	12/28/1999
9.	6,033,546	Ramsey	03/07/2000

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Foreign Patents

10.	WO 93/22058	WIPO	11/11/1993
11.	WO 96/04547	WIPO	02/15/1996
12.	WO 96/15269	WIPO	05/23/1996
13.	WO 96/30760	WIPO	10/03/1996

Non-Patent References

14. Austin, RH, et al., "Electrophoresis and Micro Lithography", *Analysis*, 21(5), pp. 235-238 (1993).
15. Cheng, J., et al., "Microchip-based Devices for Molecular Diagnosis of Genetic Diseases", *Mol. Diagn.* 1(3), pp. 183-200 (1996).
16. Cheng, J., et al., "Analysis of Ligase Chain Reaction Products Amplified in a Silicon-Glass Chip Using Capillary Electrophoresis", *J. Chromatogr.*, 732(1), pp. 151-158 (1996).
17. Cheng, J., et al., "Chip PCR. II. Investigation of Difference PCR Amplification Systems in Microfabricated Silicon-Glass Chips", *Nucleic Acids Res.*, 24(2), pp. 380-385 (1996).
18. Cooper, JM, et al., "Microengineered Sensor Systems for Drug Screening", *Anal. Meth. & Instr.*, Special Issue μ TAS '96, p. 123.
19. Harrison, DJ, et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip", *Anal. Chem.*, Vol. 64, No. 17, pp. 1926-1932 (1992).
20. Kricka, LJ, et al., "Enhanced Chemiluminescence Determination of Alpha-Amylase by Use of Amylose Labelled with Horseradish Peroxidase", *Talanta*, 37(10), pp. 971-974 (1990).
21. Miura, K., et al., "Fabrication of Injection and Switching Valve for Whole Blood Control", *publication unknown*, pp. 85-88.
22. Shoffner, MA, et al., "Chip PCR. I. Surface Passivation of Microfabricated Silicon-Glass Chips for PCR", *Nucleic Acids Res.*, 24(2), pp. 375-379 (1996).
23. Tracey, M., et al., "A Microfluidics-Based Microcytometer: Interfacing Microfluidics with Macrofluidics", *publication unknown*, pp. 89-92.
24. Volkmuth, WD, et al., "Trapping of Branched DNA in Microfabricated Structures", *Proc. Nat. Acad. Sci., USA*, 92(15), pp. 6887-6891 (1995).
25. Volkmuth, WD, et al., "DNA Electrodifffusion in a 2D Array of Posts", *Phys. Rev. Lett.*, 72(13), pp. 2117-2020 (1994).

26. Volkmuth, WD, et al., "DNA Electrophoresis in Microlithographic Arrays", *Nature*, 358(6387), pp. 600-602 (1992).

27. White, AJ, et al., "A Stopped-Flow Apparatus for Infrared Spectroscopy of Aqueous Solutions", *Biochem. J.*, Vol. 306, pp. 843-849 (1995).

Note: The present application is related to co-pending application 09/080,546, filed May 18, 1998.

The information is submitted before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114. Continued examination is requested and the fee required under 37 C.F.R. § 1.17(e) accompanies the present submission.

While this Information Disclosure Statement may contain "material" information pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" to the invention disclosed and claimed in the above-referenced application unless specifically designated as such.

Applicants specifically reserve the right, where appropriate, to antedate any such reference by the appropriate showing under 37 C.F.R. § 1.131 and § 1.608, or any other appropriate means.

This Information Disclosure Statement is not a representation that a search has been made or that no other information material to the patentability of this invention exists.

To assist the Examiner, the documents listed on the attached form PTO-1449. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,
BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: March 10, 2003

By:



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Daniel Jed Harrison, et al.

Application No.: 08/858,087

Filed: May 16, 2003

For: MICROFLUIDIC SYSTEM AND
METHODS OF USE

Group Art Unit: 1641

Examiner: C. Chin

Confirmation No.: 4960

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \$_____ is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,
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